

Radio Shack®

# TRS-80

## MICROCOMPUTER SYSTEM

The Radio Shack TRS-80 Microcomputer System heralds a new era in affordable computerization for American businesses, schools and homes.

Small businesses can now computerize specialized calculations pertaining to their business or their payroll, and soon will be able to add inventory control, general ledger accounting and accounts receivable with the additional peripherals and software to be offered by Radio Shack.

Schools will find the TRS-80 can be an extremely versatile educational tool and aid to programmed learning about virtually any subject. As a teacher's aid, the microcomputer may perform such tasks as grading test papers and storing a continuous progress report on each student.

Around the home, the TRS-80 may be used for personal finance management, evaluation of investment portfolios, storing recipes and, just for fun, to play a variety of computer games.

The TRS-80 System consists of a 53-key professional-type keyboard and microcomputer plus regulated power supply, a computer-controlled cassette recorder, and a 12" video display monitor. The system also contains a BASIC Level I interpreter in ROM. Not a kit, the TRS-80 comes completely wired, tested and U.L. listed, ready to plug in and use.

At the heart of the Radio Shack TRS-80 Microcomputer System is a Z-80 microprocessor chip that serves as the central processing unit, or "brain," of the microcomputer. This remarkable device, about the size of a watermelon seed, is one of the most advanced microprocessor chips available today.

Provisions have been made in the TRS-80 for later addition of accessory, or "peripheral" items such as an additional tape recorder that would permit advanced file programming, disks for faster data retrieval, and a printer which would create a permanent, typed record of the computer output.

A comprehensive owner's manual will be supplied with the TRS-80 that will explain everything necessary for its operation from plugging it in through programming, and a wide variety of pre-recorded cassette programs will be available for use with the microcomputer.



# APPLICATIONS SOFTWARE

## 1 Blackjack and Backgammon

Complete with instructions

*FREE Single cassette*

## 2 Payroll Cassette -15 People

With manual and  
sample instruction sheet

*19<sup>95</sup> Cassette portfolio*

## 3 Education- Math I

Multiplication  
Addition  
Subtraction  
Teachers Guide

*19<sup>95</sup> 3-cassette portfolio*

## 4 Kitchen

Menus  
Conversion Tables  
Computer Directory  
Message Center

*4<sup>95</sup> Single cassette*

## 5 Personal Finance

With manual

*14<sup>95</sup> 7-cassette portfolio*

### NOW AVAILABLE

5 Application Software Packages  
16K RAM Option (an additional 12K for  
a total RAM of 16K)  
8K RAM Option (an additional 4K for a  
total RAM of 8K)

### FUTURE APPLICATIONS

(May take additional hardware or software)

Disk General Ledger  
Disk Payroll  
Disk Accounts Receivable  
Disk Inventory Control  
Scientific Subroutine Package  
Music Theory  
Programmed Instructions  
Additional Math Training  
    a) Long Division  
    b) Algebra I  
Assembler/Editor  
Other Programming Languages

### EXPANSION FUTURE

Extended Basic  
Disk and D.O.S.  
Printer (hobbyist)  
Printer (business) Dot Matrix  
Second Cassette  
Serial I.O.  
Parallel I.O.  
Expansion Unit (for additional PC Boards)  
Modem

### POSSIBLE

Digital Cassette  
Enhanced Graphics  
Music Synthesizer  
External Device Controller  
Color Graphics  
14 Key Numeric Pad  
Plus???



# SPECIFICATION SHEET

## HARDWARE

**Microprocessor:** Advanced Z-80 8-bit processor.

**Keyboard:** Integrated ASCII, 53-key professional-type.

**Video Display:** Memory mapped, all graphics and alphanumerics controlled by BASIC commands. Cursor control. Automatic scrolling.

**Text:** 16 lines of 64 characters, also software selectable to 32 characters per line.

**Graphics:** 128 horizontal by 48 vertical. Graphics and text can be interspersed in any manner by software.

**Memory:** Includes 4K Read-Only-Memory (ROM), 4K dynamic Read/Write Memory (RAM). Internally expandable to 12K ROM and 16K RAM. Total memory capability of 62K.

**Input/Output:** Computer-controlled cassette interface. Expansion port for additional memory and peripherals. Keyboard built-in.

**Electrical:** U.L. listed for 120 volts AC, 60 Hz.

**Dimensions:** Keyboard, 16½x8x3½". CRT display, 16½x13½x12".

## SOFTWARE

**Radio Shack Level I BASIC in ROM.**

**Level I Features:** standard BASIC statements; floating point arithmetic; numeric, array, and string variables; video graphics commands; cassette save and load commands.

**Commands:** NEW, LIST, RUN, CONTINUE, REMARK, LET, FOR-NEXT-STEP, GOSUB-RETURN, STOP, END, GOTO, IF-THEN, INPUT, ON ... GOTO, ON ... GOSUB, PRINT, CSAVE, CLOAD, DATA, READ, RESTORE.

**Functions:** MEM, TAB, INT, ABS, RND, +, -, \*(multiply), /(divide), <, >, =.

**Special Commands** (Including graphics): CLS (clear screen), SET (x,y), RESET (x,y), POINT (x,y), formatted PRINT. Array and string capability. Data storage and retrieval.

## OPTIONS

**CTR Display:** 12" diagonal screen.

CTR-41 Data Cassette

## PRICES\*

|                                                                     |          |
|---------------------------------------------------------------------|----------|
| TRS-80 Microcomputer 4K RAM .....                                   | \$399.95 |
| TRS-80 Video Display .....                                          | \$199.95 |
| CTR-41 Data Cassette Recorder .....                                 | \$ 49.95 |
| Or, Complete System .....                                           | \$599.95 |
| TRS-80 RAM Expansion:                                               |          |
| 16K RAM: An additional 12K for a total<br>RAM capacity of 16K ..... | \$289.95 |
| 8K RAM: An additional 4K for a total<br>RAM capacity of 8K .....    | \$ 99.95 |

## SOFTWARE

|                                                      |         |
|------------------------------------------------------|---------|
| Payroll — 12 Employees — 8 Cassettes .....           | \$19.95 |
| Home Recipe Conversion, Message Center, Directory .. | \$ 4.95 |
| Personal Finance — 7 Cassettes .....                 | \$14.95 |
| Math I — Multiply, Add, Subtract .....               | \$19.95 |

\* Price may vary at individual stores and dealers





Place your order at the nearest store

**Radio Shack®**